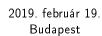
## THERE IS NO LARGEST PRIME NUMBER

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## **OUTLINE**

- Newest results of Euclid: There Is No Largest Prime Number
- 2 Examples for figures/mathematical formulas
- 8 Language options
- Thank you for attention!" frame

EUCLID NO LARGEST PRIME NUMBER

## THERE IS NO LARGEST PRIME NUMBER

THE PROOF USES reductio ad absurdum.



## THEOREM: NO LARGEST PRIME NUMBER

There is no largest prime number.

- 1 Suppose p were the largest prime number.
- 2 Let q be the product of the first p numbers.
- 3 Then q+1 is not divisible by any of them.
- 4 But q+1 is greater than 1, thus divisible by some prime number not in the first p numbers.